The european student card

Trondheim, June 4, 2019, Eunis preconference
Jean-Paul Roumegas
Cnous
Historique

2012-2013
Signing of a protocol of intent, then bilateral Franco-Italian agreements between Fondazione ENDISU, ANDISU and Cnous

Novembre 2013
Exchanges between the Cnous and the CPU on the European Student Card

Décembre 2015
Signature of a MOU between 4 countries (Germany, Ireland, Italy, France)
Exchanges within ECStA

2016
Institutional structuring at European level
-> Erasmus + Strategic Partnership
Bilateral agreement between ANDISU, Fondazione ENDISU and Cnous
Launch of F. Endisú's project by Stefania Giannini, Minister of Education, Universities and Research in the presence of Cnous
Presentation of ESC project to European Commission

04.2013

Discussion Cnous - CPU

11.2013

International conference on European values, vision and mission in Student Affairs

05.2014

Presentation of the National plan for Student life, measure n°9 / 60th anniversary celebrations of Cnous

10.2014

Meeting of French and Italian Ministers for Education in Florence → Implementation of the experimentation of the ESC project

05.2016

Application for Erasmus+ funding, action key 2 Strategic partnership

03+07.2016

Selection results – project approved / grant allocated

10+11+12.2015

Technical meetings

Signing of a Memorandum of understanding

10.2016

Creation of a national Steering committee involving all stakeholders of Higher Education in the ESC project

11.2016

ESC Kick-off meetings

06.2017

ESC Mid-conference in Germany

06.2018

Final conference → Proposal to generalize ESC to the 47 countries of the EHEA as one of the priorities to be adopted at the next Ministerial Conference "Bologna" in 2018
European student card fundamentals

- A graphic « European Student » identity: Logo/hologram

- Interconnecting of European HEIs (data providers)
  - For sharing the student status between HEIs: common e-ID
  - For exchanging data between HEIs in order to simplify procedures and ensure access to services provided by the HEIs
Hologram

EUROPEAN STUDENT
The identifiers

• ESI - European Student Identifier
  - Country Code (ISO3166-1)
  - Region Code (NUTS level 1,2 or 3) - optional
  - PIC: Participant Identification Code (Horizon 2020)
  - Local student number at the institution
  - Separator: - (Standard hyphen: U + 002D)
  - Example: FR-999859608-1234567890GESCN

• European Student Card Number ESCN
  - Local generation without connection required
  - Uniqueness of algorithm guaranteed number (RFC-4122)
  - Library available for .NET and Java
  - Example: 6a01dfc0-cb98-1035-a19b-001999859608
A common Student e-ID on EU scale

Principle: relies on the identification specific to each country or institution

Model = SEPA (single euro payment area) method: IBAN and BIC model

• Unique European student identification (ESI) may consist of 2 items:
  • Country code
  • HEI: PIC code (European Institution Code)
  • SI (Student identification): < student identification code given by home institution>

<Country code> <PIC> <student identification code>
European student card number (ESCN)

– A number (≠ card number given by the card provider and ≠ from the student identifier)
  Possible protection of the serial number accessible without authentication
  Possibility to have different kind of technologies

– A number generated that is generated by a library (.jar or .dll) without using an online library

– ESCN generated by a using an algorithm (rfc-4122) according to variable elements:

  HEI PIC, time and date on a millisecond time, number of the server

  ESCN is a unique 16 bytes identifier:
  Example: ‘a0e4cacc-c5a8-441f-af57-e7bd46d3b4ce’
ESCN stored on the card (QR code)

- Machine-reading of the ESCN

- [http://esc.gg/a0e4cacc-c5a8-441f-af57-e7bd46d3b4ce](http://esc.gg/a0e4cacc-c5a8-441f-af57-e7bd46d3b4ce)

- Redundancy: 15%

- Recommended size: 15 /15 mm
ESC- Router
- Create a "trusted third party" that certifies the student status of the bearer of a card
- Facilitate access to services for mobile students
- Facilitate the exchange of information/Data between institutions
How?

Creating a platform: The « ESC – Router »
To Do List

• Put a hologram on his cards
• Request the creation of an account on the ESCR
  https://router.europeanstudentcard.eu/register
• Integrate libraries for the generation of the ESCN
• Print the QRCode
• Send student data and cards to ESCR via API

Documents available on
https://router.europeanstudentcard.eu
Available option for interoperability

Available options for interoperability

<table>
<thead>
<tr>
<th>HEI</th>
<th>Legend</th>
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<tbody>
<tr>
<td></td>
<td>Visual check Manual ESC-R search</td>
</tr>
<tr>
<td></td>
<td>QR Code reader</td>
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<tr>
<td></td>
<td>Contactless chip reader</td>
</tr>
</tbody>
</table>

Plain regular card

- Potential impact on card production process: 
  - Cross: Not available

- Reading device available: 
  - Eye: Available

- Possibility to add new services on demand: 
  - Cross: Not available

- Level of interoperability:
  - Bar chart: Low

Card with QR code

- Potential impact on card production process: 
  - Cross: Not available

- Reading device available: 
  - Eye: Available

- Possibility to add new services on demand: 
  - Cross: Not available

- Level of interoperability:
  - Bar chart: Moderate

Chip card with electronical control

- Potential impact on card production process: 
  - Cross: Not available

- Reading device available: 
  - Eye: Available

- Possibility to add new services on demand: 
  - Cross: Not available

- Level of interoperability:
  - Bar chart: High

Smart card

- Potential impact on card production process: 
  - Cross: Not available

- Reading device available: 
  - Eye: Available

- Possibility to add new services on demand: 
  - Checkmark: Available

- Level of interoperability:
  - Bar chart: Highest
Use case 1/2

Testify of the status of the student

![Student Status Card](image-url)
Use case 2/2

Student Portal

- Students can access a catalog of accessible services in partner institutions
- Some services can be activated from the portal
European Student Card Student Portal

Username

Password

New user? Sign up

Password lost? Ask for a new password
EUROPEAN STUDENT CARD

Izly
Payement
Owner: CNOUS
Contact: contact@izly.fr
Website: https://help.izly.fr/en/

Description
Izly is a service that enables you to instantly pay, receive and send money from your electronic money account using your Smartphone.
WG uses and services

3 keys areas:

- **E-payment**
  - Eucor, the European Campus, STW Freiburg (Dieter Ross) and STW Karlsruhe, Fondazione ENDISU, Educatt, Crous de Strasbourg, Cnous

- **Libraries**
  - ADBU, University College Cork, Campus card Berlin, UBFC, EDUCatt

...
Use cases : Navigo

Demande de souscription à imagine R Etudiant

Afin de simplifier votre démarche, autorisez-vous NAVIGO à récupérer vos informations de statut d’étudiant sur la plateforme ESC-R ?

Oui, j’autorise

Non, je préfère présenter ma carte à un guichet

Echange avec SupData

Vos données de statut étudiant ont bien été récupérées :

STATUT ETUDIANT                   OUI
ETABLISSEMENT                      Université Paris 1
DATE DE FIN D’INSCRIPTION          30/06/2019
INE                                  18 00000001 AB

Vous remplissez donc bien les conditions pour bénéficier d’une carte Imagine R.

Etape suivante
Use cases : mes services étudiant

S'INSCRIRE DANS L'ENSEIGNEMENT SUPÉRIEUR

CVEC
Contribution vie étudiante et de campus

DEMANDER UNE BOURSE OU UNE AIDE

DEMANDES DE DSE 2019-2020
La demande de DSE est ouverte. Vous pouvez déposer votre dossier jusqu'au 15 mai.

DEMANDES DE LOGEMENT 2019-2020
Votre demande de logement pour l'année
Use cases: AquiMob

AquiMob

17 HEI

One single application procedure for mobility grants

Shared between HEI and funding bodies
To be deployed

- Store the ESCN in the chip of the card
- Authentication by eduGain identity federation
ESCN stored on the electronical chip of the card

- **An automatic contactless electronic recognition** by a card reader
  More secure procedure + requirements needed for adding new services on the student cards

- **A standardized data format**
  In free reading mode without using a SAM (Secure Access Module)
  which holds the HEI PIC and the ESCN of the card

*The Data European University Info (DEUInfo) is the name of the area on the memory where ESCN is stored*
What information is stored and where?

Written personal information
- First name and last name
- HEI PIC Code
- Student ID
- Country code

Information recorded in the chip and in the QR code
- HEI PIC Code
- ESC-ID (contained in the URL to the hub)

Card itself holds minimal information to be used as a key

Interrogates

ESC-H

Provides information

HEI

Card management system

All personal information remain in local information system

Information in the ESC-R allows to connect the card to the HEI

HEI identification data
- HEI PIC code
- ESC-ID
- Expiry date
- Student ID
- Academic Level
- E-mail

Provide feedback
GDPR principles

• Student Consent when issuing cards by his home HEI

• Information stored on the ESC-R: ESCN, ESI, level of studies, expiry date, email optional

• Student interface where the student can see, check, erase or complete data, or cancel his account

• Data erased a while after the expiry date of student card

• Audit and legal notice
THE PROJECT

The European Student Card will simplify the mobility thanks to the recognition of the student status. → See underneath status report and pilot plan of action.

READ MORE →
Cooperation EWP - ESC

- API EWP : HEI connect CMS to generate/manage student cards
- API EWP : check student status
- Competence center : technical docs on ESC and ESUP SGC (CMS opensource)
A European Area of Education should include:

• **Making mobility a reality for all**: by building on the positive experiences of the Erasmus+ programme and the European Solidarity Corps and expanding participation in them as well as by creating an **EU Student Card** to offer a new user-friendly way to store information on a person's academic records;

Ensure that all mobile students have an EU student eCard to facilitate their application to any school or university in the EU. ► Double the number of young people in the EU participating in Erasmus+ (from 3.7% to 7.5%), which will require a budget of EUR 29.4 billion for the period 2021-2027.
We also note with interest the current “European student card” EU pilot project, which could potentially be broadened to support and facilitate student mobility throughout the entire EHEA.
European Student Card initiative

- make mobility “a reality for all”
- foster a sense of European identity amongst students.
- enhancing the quality of the mobility experience
- establishing a strong visual European student identity.
benefits for Higher Education Institutions?

- simplifying student mobility management by digitising and streamlining administrative

benefits for students?

- enable students to manage all the steps of their mobility before, during and after from a single online “one-stop-shop” for students.
- enable students to have their student status easily recognised across Europe by having a visible symbol of the “European Student identity” added onto their national student card.
European commission
European Student Card Initiative

Workshops « taking forward the european student card
Erasmus Without Paper
EMREX
European Student Card

And CEF funded projects based on eIDAS electronic citizenship and dev of digital infrastructure

Call for projects 2018 : My academic ID and SEAL
MyAcademicID outcomes

• Connecting eduGAIN and eIDAS
• Connecting ESC and eduGAIN
• Connecting national eID and eduGAIN
• Connecting e-services with eduGAIN
• Sustainability and upscaling planning
1. European University Foundation-Campus Europae (EUF)
2. Centre national des œuvres universitaires et scolaires (CNOUS) –
3. Géant Association (GEANT) - established in Netherlands
4. Vetenskapsrådet - Swedish Research Council (SRC) - established in Sweden
5. Humboldt-Universität zu Berlin (UBER) - established in Germany
6. University of Malaga (UMA) - established in Spain
7. Réseau national de communications électroniques pour la technologie, l'enseignement et la recherche (RENATER) - established in France
8. Direção-Geral do Ensino Superior (DGES) - established in Portugal
9. Fondazione ENDISU - Ente Nazionale per il Diritto allo Studio e per I Servizi agli Studenti (ENDISU) - established in Italy
10. ARISTOTELIO PANEPISTIMIO THESSALONIKIS (AUTH) - established in Greece
11. Deutsches Studentenwerk (DSW) - established in Germany
12. Educatt - Ente per il Diritto allo studio Universitario dell'Università Cattolica (EDUCATT) - established in Italy
13. Direction Interministérielle du Numérique et des Systèmes d’Information et de Communication de l’état) (DINSIC) -
principles for converging work

attributes

<table>
<thead>
<tr>
<th>Edugain</th>
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<tbody>
<tr>
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<tr>
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<tr>
<td>Affiliation</td>
<td>ESCN</td>
</tr>
<tr>
<td>Student ID</td>
<td>ESI</td>
</tr>
<tr>
<td>E mail</td>
<td>E mail</td>
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</table>
principles for converging work

• Single/Common authentication system
• Single Student ID
• One principle: unique student e-ID as a basis of data exchange
• Common portal of tools for mobility for HEI use
• Common student portal: a single desk where they may find all services
• On line services
• Local services: access with card
Digital services